RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	
Source:	P4/10
Date Processed by STIC:	11/1/05

ENTERED

CRF Errors Edited by the STIC Systems Branch

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Realigned n	ucleic acid/ar	nino acid nu	mbers/text i	in cases where	the seq
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Deleted:	invalid begi	nning/end-o	f-file text :	page numb	ers
Inserted mai	ndatory head	lings/numeri	લાંટ ic identifiers,	specifically:	•
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Moved respo	onses to same	line as head	ling/numeric	identifier, spe	cifically
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Other:	Q-	aliani 1	0 3	ed hum	lead
1441	usee 0	wy pro	UTPRO	wa rum	

Revised 09/09/2003



PCT

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RAW SEQUENCE LISTING DATE: 11/03/2005
PATENT APPLICATION: US/10/554,387 TIME: 12:33:35

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             Baum, Gideon
     5
             Sharon Hashmueli
     6
             Ayala Lewkowicz
             Bartfeld, Daniel
     9 <120> TITLE OF INVENTION: PRODUCTION OF HIGH MANNOSE PROTEINS IN PLANT CULTURE
    11 <130> FILE REFERENCE: 30570
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/554,387
C--> 13 <141> CURRENT FILING DATE: 2005-10-25
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PATENT APPLICATION: US/10/554,387 TIME: 12:33:35

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192 Gly Val Arg Leu Leu Met Leu Asn Asp Gln Arg Leu Leu Leu Pro His 125 196 Trp Ala Lys Val Val Leu Trp Tyr Leu Asp Pro Glu Ala Ala Lys Tyr Val His 135 197 130 130 140 140 140 140 140 140 200 Gly Ile Ala Val His Trp Tyr Leu Asp Pro Glu Ala Ala Pro Ala Lys Ala Ala Lys Ala Ala Lys Ala Ala Lys Ala Lys Ala Ala Lys Ala Ala Lys Ala Ala Ala Ala Ala Lys Ala Ala		Ser Pr	o Pr			Asn	Leu	Leu		Lys	Ser	Tyr	Phe		Glu	Glu	
193																	
Try Ala Lys Val Val Leu Thr Asp Pro Glu Ala Ala Lys Tyr Val His 130 130 135 140		_		_	Leu	Met	Leu		Asp	Gln	Arg	Leu		Leu	Pro	His	
197				-					_			- -		_			
200 Gly Ile Ala Val His Trp Tyr Leu Asp Phe Leu Ala Pro Ala Lys Ala 201 145 150 150 150 155 160 170		_	_	s Val	Val	Leu		Asp	Pro	Glu	Ala		Lys	Tyr	Val	His	
201					•	_		_	_		_		_		_		
The lead of the lear of the		_	e Al	a Val	His	_	Tyr	Leu	Asp	Phe		Ala	Pro	Ala	Lys		
205					_,		_	_		_		_,		_	_,		
208 Ser Glu Ala Cys Val Gly Ser Lys Phe Trp Glu Gln Ser Val Arg Leu 209		Thr Le	eu GI	y GIu		His	Arg	Leu	Phe		Asn	Thr	Met	Leu		Ala	
180				~		~3	_	_	-1		~3	~3					
212 Gly Ser Trp Asp Arg Gly Met Gln Tyr Ser His Ser Ile Ile Thr Asn 213			u AI	_		GIY	Ser	ьуs		Trp	GIU	GIN	ser		Arg	Leu	
213						01	M = L	61		0	TT	0	~ 1 ~		ml	7	
216 Leu Leu Tyr His Val Val Gly Trp Thr Asp Trp Asn Leu Ala Leu Asn 217 210		GIY SE			Arg	GIA	мес		TYL	ser	HIS	ser		TIE	1111	ASII	
217		Ton To			177	17a]	~1		Th w	7 an	Two	7 00		ח ד ת	T 011	7.00	
220 Pro Glu Gly Gly Gly Pro Asn Trp Val Arg Asn Phe Val Asp Ser Pro Ile 221 225 230 235 240 224 Ile Val Asp Ile Thr Lys Asp Thr Phe Tyr Lys Gln Pro Met Phe Tyr 245 255 255 232 His Leu Gly His Phe Ser Lys Phe Ile Pro Glu Gly Ser Gln Arg Val 233 260 270 270 236 Gly Leu Val Ala Ser Gln Lys Asn Asp Leu Asp Ala Val Val Ala Leu Met 237 275 280 280 285 285 240 His Pro Asp Gly Ser Ala Val Val Val Val Val Leu Asp Ala Val Ala Leu Met 237 275 295 295 285 285 240 His Pro Asp Gly Ser Ala Val Val Val Val Val Val Leu Asp Ala Pro Ser Lys 290 295 300 285 295 300 244 Asp Val Pro Leu Thr Ile Lys Asp Pro Ala Val Gly Phe Leu Glu Thr 320 320 248 Ile Ser Pro Gly Tyr Ser Ile His Thr Tyr Leu Trp His Arg Gln 335				L HIS	Val	Val		пр	1111	Asp	пр		Leu	Ala	Leu	ASII	
221 225				v Clv	Dro	Λan		Val	λνα	λen	Dho		λen	Sar	Dro	Tla	
The Nation of Series of			.u GI	y Gry	FIQ		пр	vai	nr 9	HOII		Vai	App	Der	110		
225			1 Ac	n Tla	Thr		Δen	Thr	Dhe	Tur		Gln	Pro	Met	Phe		
232 His Leu Gly His Phe Ser Lys Phe Ile Pro Glu Gly Ser Gln Arg Val 233		116 00	II AD	D +TC		Lys	ASP	1111	riic	_	БуЗ	0111	110	1100		- 7 -	
233		Hie Le	G1	v Wie		Sar	Lve	Dhe	Tle		Glu	Glv	Ser	Gln		val	
236 Gly Leu Val Ala Ser Gln Lys Asn Asp Leu Asp Ala Val Ala Leu Met 237																Vul	
237																Met	
240 His Pro Asp Gly Ser Ala Val Val Val Leu Asn Arg Ser Ser Lys 241		_			DCI	0111	Ly U		nop.	200	1155	711 u			LCu		
241 290 295 300 244 Asp Val Pro Leu Thr Ile Lys Asp Pro Ala Val Gly Phe Leu Glu Thr 245 305 310 320 248 Ile Ser Pro Gly Tyr Ser Ile His Thr Tyr Leu Trp His Arg Gln 249 325 333 335					Ser	Δla	Val		Val	Val	Len	Asn		Ser	Ser	Lvs	
244 Asp Val Pro Leu Thr Ile Lys Asp Pro Ala Val Gly Phe Leu Glu Thr 245 305 310 315 320 248 Ile Ser Pro Gly Tyr Ser Ile His Thr Tyr Leu Trp His Arg Gln 249 335 336 335													9			-1-	
245 305 310 315 320 248 Ile Ser Pro Gly Tyr Ser Ile His Thr Tyr Leu Trp His Arg Gln 325 330 335			-	o Leu	Thr	Ile		Asp	Pro	Ala	Val		Phe	Leu	Glu	Thr	
248 Ile Ser Pro Gly Tyr Ser Ile His Thr Tyr Leu Trp His Arg Gln 249 325 330 335							_, 5					1					
249 325 330 ·335			r Pr	o Glv	Tvr		Ile	His	Thr	Tvr		Trp	His	Ara	Gln		
				1								- - P		د - ۰ -			
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DATE: 11/03/2005

TIME: 12:33:35

Input Set : A:\PTO.AMC.txt Output Set: N:\CRF4\11032005\J554387.raw 253 <211> LENGTH: 338 254 <212> TYPE: DNA 255 <213> ORGANISM: Cauliflower mosaic virus 257 <400> SEQUENCE: 9 258 ttttcacaaa gggtaatatc gggaaacctc ctcggattcc attgcccagc tatctgtcac 60 260 ttcatcgaaa ggacagtaga aaaggaaggt ggctcctaca aatgccatca ttgcgataaa 120 262 ggaaaggcta tcgttcaaga tgcctctacc gacagtggtc ccaaagatgg acccccaccc 180 264 acqaqqaaca tcqtqqaaaa aqaaqacqtt ccaaccacqt cttcaaaqca aqtggattga 240 266 tgtgatatet ceaetgaegt aagggatgae geacaateee actateette geaagaeeet 300 268 tectetatat aaggaagtte attteatttg gagaggae 338 271 <210> SEQ ID NO: 10 272 <211> LENGTH: 66 273 <212> TYPE: DNA 274 <213> ORGANISM: Artificial sequence 276 <220> FEATURE: 277 <223> OTHER INFORMATION: Nucleic acid sequence encoding the ER signal peptide 279 <400> SEQUENCE: 10 280 atgaagacta atcttttct ctttctcatc ttttcacttc tcctatcatt atcctcggcc 60 66 282 gaattc 285 <210> SEO ID NO: 11 286 <211> LENGTH: 21 287 <212> TYPE: DNA 288 <213> ORGANISM: Artificial sequence 290 <220> FEATURE: 291 <223> OTHER INFORMATION: Nucleic acid sequence encoding the vacuolar targeting sequence 293 <400> SEQUENCE: 11 21 294 gatcttttag tcgatactat g 297 <210> SEQ ID NO: 12 298 <211> LENGTH: 167 299 <212> TYPE: DNA 300 <213> ORGANISM: Artificial sequence 302 <220> FEATURE: 303 <223> OTHER INFORMATION: Nucleic acid sequence of the Agrobacterium tumefaciens terminator 306 <220> FEATURE: 307 <221> NAME/KEY: misc feature 308 <222> LOCATION: (162)..(162) 309 <223> OTHER INFORMATION: n is a, c, g, or t 311 <400> SEQUENCE: 12 60 312 taatttcatg atctgttttg ttgtattccc ttgcaatgca gggcctaggg ctatgaataa 314 agttaatgtg tgaatgtgtg aatgtgtgat tgtgacctga agggatcacg actataatcg 120 W--> 316 tttataataa acaaagactt tgtcccaaaa acccccccc cngcaga 167 319 <210> SEQ ID NO: 13 320 <211> LENGTH: 2186 321 <212> TYPE: DNA 322 <213> ORGANISM: Artificial sequence 324 <220> FEATURE: 325 <223> OTHER INFORMATION: nucleic acid sequence encoding high mannose human glucocerebrosidase (GCD) 326

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/554,387

329 <220> FEATURE:

RAW SEQUENCE LISTING DATE: 11/03/2005
PATENT APPLICATION: US/10/554,387 TIME: 12:33:35

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11032005\J554387.raw

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     339 ggaaaggcta tcqttcaaqa tgcctctacc gacagtggtc ccaaagatgg acccccaccc
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     343 tgtgatatct ccactgacgt aagggatgac gcacaatccc actatccttc gcaagaccct
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     345 teetetatat aaggaagtte attteatttg gagaggacag gettettgag ateetteaae
                                                                              360
     347 aattaccaac aacaacaac aacaacaac attacaatta ctatttacaa ttacaqtcga
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                                                                              660
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                                                                             1080
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     396 aattgggtgc gtaactttgt cgacagtccc atcattgtag acatcaccaa ggacacgttt
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     398 tacaaacagc ccatgttcta ccaccttggc cacttcagca agttcattcc tgagggctcc
     400 cagagagtgg ggctggttgc cagtcagaag aacgacctgg acgcagtggc actgatgcat
                                                                             1860
     402 cccgatggct ctgctgttgt ggtcgtgcta aaccgctcct ctaaggatgt gcctcttacc
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     416 <211> LENGTH: 526
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     418 <213> ORGANISM: Artificial sequence
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425 Met Lys Thr Asn Leu Phe Leu Phe Leu Ile Phe Ser Leu Leu Ser

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/03/2005 PATENT APPLICATION: US/10/554,387 TIME: 12:33:36

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11032005\J554387.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; N Pos. 162 Seq#:13; N Pos. 2181 VERIFICATION SUMMARY

DATE: 11/03/2005

PATENT APPLICATION: US/10/554,387

TIME: 12:33:36

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11032005\J554387.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:120 L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:2160

Raw Sequence Listing before editing (for reference only)



PCT

RAW SEQUENCE LISTING DATE: 11/01/2005
PATENT APPLICATION: US/10/554,387 TIME: 11:00:57

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\11012005\J554387.raw

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3 <110> APPLICANT: Shaaltiel, Yoseph
4 Baum, Gideon
5 Sharon Hashmueli
6 Ayala Lewkowicz
7 Bartfeld, Daniel
9 <120> TITLE OF INVENTION: PRODUCTION OF HIGH MANNOSE PROTEINS IN PLANT CULTURE
11 <130> FILE REFERENCE: 30570
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/554,387
C--> 13 <141> CURRENT FILING DATE: 2005-10-25
13 <160> NUMBER OF SEQ ID NOS: 14
15 <170> SOFTWARE: PatentIn version 3.3
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ERRORED SEQUENCES

Does Not Comply Connected Diskette Neede

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162	<210)> SI	EQ II	ON C	: 8											
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						sar	piens	3						V		
	<400		-													
		Arg	Pro	Cys		Pro	Lys	Ser	Phe		Tyr	Ser	Ser	.Val		Cys
170					5					10				_	15	
		Cys	Asn		Thr	Tyr	Cys	Asp		Phe	Asp	Pro	Pro		Phe	Pro
174			_	20	_				25				_	30	_	_
		Leu		Thr	Phe	Ser	Arg		Glu	Ser	Thr	Arg		Gly	Arg	Arg
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	Phe	GIY	GIY	Ala		Thr	Asp	Ala	Ala		Leu	Asn	тте	Leu		Leu
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		Pro	Pro		GIn	Asn	Leu	Leu		гàг	ser	тyr	Pne		GIU	GIU
194				100	-		-		105	~ 1				110	D	
	-	vaı	_	Leu	Leu	Met	Leu		Asp	GIn	Arg	ьeu		Leu	Pro	HIS
198			115			-	m1	120		~ 1			125	m		77.2 m
	Trp		ьуs	vaı	vaı	Leu		Asp	Pro	GIU	Ата		гла	Tyr	vai	HIS
202	~7	130					135		•	-1		140		27-	.	77-
	_	тте	Ата	val	His	Trp	Tyr	ьeu	Asp	Pne		Ala	Pro	Ala	гÀг	
	145	.	~ 1.	a 1.	m1	150		.	Dl.	D	155	m1			Db.	160
	Thr	ьeu	GTA	GIU		His	Arg	ьeu	Pne		Asn	Inr	Met	ьeu		Ата
210	a	~ 1.		~	165	~ 1	0	.	D1	170	~ 1	01 -	a	**- 3	175	T
213	ser	.GLU	Ala	Cys	vai	Gly	ser	ьys	rne	Trp	Glu	GIN	ser	val	arg	டeu

RAW SEQUENCE LISTING DATE: 11/01/2005
PATENT APPLICATION: US/10/554,387 TIME: 11:00:57

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\11012005\J554387.raw

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    221 Leu Leu Tyr His Val Val Gly Trp Thr Asp Trp Asn Leu Ala Leu Asn
    222 210
                                215
                                                . 220
    225 Pro Glu Gly Gly Pro Asn Trp Val Arg Asn Phe Val Asp Ser Pro Ile
                           230
                                               235
                    245 245 Phe Ser Lys Phe Ile Pro Glu Gly Ser Gln Arg Val
260 265 270 hos.
    229 Ile Val Asp Ile Thr Lys Asp Thr Phe Tyr Lys Gln Pro Met Phe Tyr
    237 His Leu Gly His Phe Ser Lys Phe Ile Pro Glu Gly Ser Gln Arg Val
    241 Gly Leu Val Ala Ser Gln Lys Asn Asp Leu Asp Ala Val Ala Leu Met
E--> 242 275
                                    280
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    249 Asp Val Pro Leu Thr Ile Lys Asp Pro Ala Val Gly Phe Leu Glu Thr
E--> 250 305
                        310
                                                315
    253 Ile Ser Pro Gly Tyr Ser Ile His Thr Tyr Leu Trp His Arg Gln
E--> 254
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     456 Asn His Thr Gly Thr Gly Leu Leu Thr Leu Gln Pro Glu Gln Lys
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     485 Lys Leu Lys Ile Pro Leu Ile His Arg Ala Leu Gln Leu Ala Gln Arg
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RAW SEQUENCE LISTING DATE: 11/01/2005
PATENT APPLICATION: US/10/554,387 TIME: 11:00:57

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\11012005\J554387.raw

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                                         265
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     513 Thr Leu Ala Asn Ser Thr His His Asn Val Arg Leu Leu Met Leu Asp
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     517 Asp Gln Arg Leu Leu Leu Pro His Trp Ala Lys Val Val Leu Thr Asp
                             310
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    525 Asp Phe Leu Ala Pro Ala Lys Ala Thr Leu Gly Glu Thr His Arg Leu
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                                         345
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    548 Arg Asn Phe Val Asp Ser Pro Ile Ile Val Asp Ile Thr Lys Asp Thr
                                         425
                    ىرى 420
    552 Phe Tyr Lys Gln Pro Met Phe Tyr His Leu Gly His Phe Ser Lys Phe
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                                     440
                                                         445
     556 Ile Pro Glu Gly Ser Gln Arg Val Gly Leu Val Ala Ser Gln Lys Asn
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VERIFICATION SUMMARY DATE: 11/01/2005
PATENT APPLICATION: US/10/554,387 TIME: 11:00:58

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\11012005\J554387.raw

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:235 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
L:238 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
L:242 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
L:246 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
L:250 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
L:254 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:120
L:423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:2160
L:580 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:14
L:582 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:585 M:333 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1
L:588 M:252 E: No. of Seq. differs, <211> LENGTH:Input:526 Found:527 SEQ:14